

## PRODUCT DATA SHEET 10-65702-01 RHGAD65

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<b>Product Name</b>	DIAMYD™
<b>Identity</b>	Recombinant human Glutamic Acid Decarboxylase (EC 4.1.1.15, 65kDa isoform, scientific abbreviation is “rhGAD65”) expressed in baculoviral infection of <i>Spodoptera frugiperda</i> cells, and purified via a two-step process.
<b>Batch number</b>	10.65702.01
<b>Concentration</b>	7.04mg/ml in HEPES buffer (with stabilizers)
<b>Purity</b>	Ca 95% pure as determined by SDS-PAGE. Delivery is in HEPES buffer with stabilizers.
<b>Quality assurance</b>	<ol style="list-style-type: none"><li>1. Ca 95% of total proteins migrate as single band on SDS-PAGE</li><li>2. The in vitro transcribed cDNA/translated (in the presence of <sup>35</sup>S methionine) shows immunoreactivity against a serum from a GAD<sub>65</sub> antibody-positive insulin-dependent diabetic patient, and is displaced by GAD<sub>65</sub>.</li></ol>
<b>Shipping Conditions</b>	Shipped at -78°(dry ice).
<b>Storage Conditions</b>	Store at -70°C.
<b>Certified by</b>	Name: _____ Sign: _____
<b>Date</b>	____/____/____ (dd/mm/yy)

*This product is to be used for research purposes only*

*Please note that our GAD-products is sold for research and non-commercial purposes only under exclusive licenses from several universities in the USA.*

*Our GAD-based products is not approved for use in humans by any Regulatory authority in any country.*

THIS CERTIFICATE IS A DECLARATION OF ANALYSIS AT THE TIME OF MANUFACTURE

## MATERIAL SAFETY DATA SHEET (MSDS)

The enclosed information has been compiled from sources believed to be reliable, but does not claim, or purport to claim, to be all-inclusive, and shall be used only as a guide. Diamyd shall not be held liable for any damages resulting from the use of this product since it is the user's responsibility to determine whether this product is suitable for their particular purposes. The user assumes all risk of use, contact with this material, handling, and disposal.

**Date of preparation or revision:** March 03, 2006

### IDENTIFICATION OF SUBSTANCE AND COMPANY:

<b>Product Name:</b>	recombinant 65 kDa isoform of human Glutamic Acid Decarboxylase (rhGAD65)	
<b>Catalog Number:</b>	10-65702-01	
<b>Suppliers:</b>	Diamyd Diagnostics AB Linnegatan 89B SE-115 23 Stockholm Sweden	Diamyd, Inc. 100 Technology Drive, Suite 400, Suite 400, Pittsburgh, PA 15219 USA
Telephone:	+46(0)8-661 00 26	+1 412 770 1352
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### COMPOSITION/INFORMATION ON INGREDIENTS:

<b>Name:</b>	rhGAD65
<b>CAS Registry Number:</b>	not available
<b>E.C. Number:</b>	EC 4.1.1.15
<b>Molecular Weight:</b>	ca. 65 kDa
<b>Concentration:</b>	1 mg/mL

This rhGAD65 is manufactured by cDNA expression in a baculovirus/insect cell system. The chemical, physical and toxicological properties of this protein have not been thoroughly investigated. Exercise care to prevent contact or exposure.

Hazards identified with this product are those derived from the named product compound (as described in this MSDS) and those associated with the following buffer components.

Copyright restrictions do not allow us to give MSDS information on these components. The rhGAD65 is in aqueous solution in HEPES buffer (pH 7.4) with detergent and reducing agent.

### HAZARDS IDENTIFICATION:

Caution: Avoid contact and inhalation.

### FIRST AID MEASURES:

If swallowed, wash out mouth with water, if the person is conscious. Consult a physician.  
In case of skin contact, wash immediately with soap and copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes and wash before re-wearing. Consult a physician.

In case of eye contact, flush immediately with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Consult a physician.

In case of inhalation, remove to fresh air and monitor breathing. If breathing becomes difficult, consult a physician.

**FIRE AND EXPLOSION HAZARD DATA:**

Flash Point (Method Used): NA (aqueous solution), Flammable Limits: N/A, LEL: N/A, UEL: N/A.

Extinguishing Media: Use media appropriate to the surrounding fire.

Special Fire-Fighting Procedures: None required for this material; dress appropriately for surrounding fire.

Unusual Fire and Explosion Hazards: None known.

**ACCIDENTAL RELEASE MEASURES:**

Steps to be taken if material is spilled or released: Evacuate area. Wear protective clothing and equipment (at least a lab coat, chemical safety goggles and laboratory gloves). Sweep up and place in suitable bag or container. Avoid raising dust. Hold for appropriate waste disposal. Ventilate area and wash spill site after material pickup is complete.

**HANDLING AND STORAGE:**

Store according to conditions recommended for reagent stability. Avoid contact with material. Avoid repeated or prolonged exposure to material. Refer also to the next section.

**EXPOSURE CONTROLS/PERSONAL PROTECTION:**

Protective equipment: Wear suitable protective clothing, such as a lab coat, chemical resistant gloves and chemical safety goggles.

Respiratory protection and ventilation: Handle in a laboratory with adequate ventilation. Avoid breathing dust.

**PHYSICAL AND CHEMICAL PROPERTIES:**

Appearance: Frozen until thawed, then liquid (aqueous solution).

**STABILITY AND REACTIVITY:**

Stability: Stable.

Hazardous combustion or decomposition products: Nature of combustion products and decomposition products are not known.

Hazardous polymerization: Will not occur.

**TOXICOLOGICAL INFORMATION:**

May be harmful if inhaled, ingested or absorbed through the skin. May cause irritation. Prolonged or repeated exposure may result in allergic or autoimmune reactions in certain sensitive individuals.

The toxicological properties of this material have not been established.

**ECOLOGICAL INFORMATION:**

No information available.

**DISPOSAL CONSIDERATIONS:**

Country, federal state and local regulations concerning disposal are different and subject to frequent change. For this reason, we recommend that you contact local authorities for information on the disposal of this product and observe any applicable regulations. Alternatively, arrange for disposal by a licensed disposal company.

Due to the biological nature of this material, we recommend that disposal include a biological inactivation method (e.g., autoclaving, incineration, etc.), even though the biohazardous properties of this product do not make such a step mandatory.

**TRANSPORT INFORMATION:**

Must be transported below  $-70^{\circ}\text{C}$ . Dry ice shipment is recommended.

**REGULATORY INFORMATION:**

Caution: This material has not been fully tested. Based on general health and good laboratory practice considerations, the observation of the following risk and safety phrases are recommended:

Risk Phrases:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

Safety Phrases:

S24/25: Avoid contact with skin and eyes.

S36/37/38: Wear suitable protective clothing, gloves and eye/face protection.

**OTHER INFORMATION:**

Wash thoroughly after handling.

Material should be handled only by qualified, experienced professionals.

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