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**Product Data Sheet**


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Product Name: Glucocerebrosides (buttermilk)

Cat. No.: GC43767

**Chemical Properties**

Cas. No.

SMILES O[C@H]1[C@H](O)[C@@H](CO)O[C@@H](OC[C@@H]([C@H](O)/C=C/CCCCCCCCCCCC)NC([R])=O)[C@@H]1OFormula C<sub>46</sub>H<sub>89</sub>NO<sub>8</sub> (for docosanoyl) M.Wt 784.2

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Glucocerebrosides are formed by the tethering of glucose to a ceramide by glucosylceramide synthase. They are present in neuronal and non-neuronal mammalian tissues and are found at low quantities in a large number of plant species.

Glucocerebrosides are precursors in the synthesis of lactosylceramides and gangliosides. Increased levels of glucocerebrosides are associated with obesity-induced insulin resistance in mice and with neuronal deficits observed in neuronopathic Gaucher disease. This product is a mixture of glucocerebrosides, with variable ceramide chain lengths, extracted from bovine buttermilk.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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