

Product Data Sheet

Product Name: KBC-007

Cat. No.: GC43996

Chemical Properties

Cas. No. 1037297-61-2

SMILES OC[C@@H]1[C@H](O)[C@H](O)[C@@H](O)[C@@H](OC[C@@H]([C@H](O)[C@H](O)CCCCCCCCCCCCC)NC(CCCCCCN(CCCCCC)CCCCC=O)O1

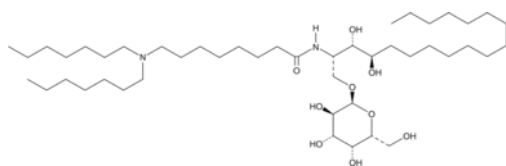
Formula C₄₆H₉₂N₂O₉ M.Wt 817.2

Solubility DMSO: 20 mg/ml, Ethanol: 12 mg/ml, Water: 18 mg/ml 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

KBC-007 is a synthetic branched chain-containing analog of α-galactosylceramide (α-GalCer). It induces IL-4 and IFN-γ secretion by mouse splenocytes when used at a concentration of 0.5 ng/ml and IL-2 secretion by DN32.D3 NKT hybridoma cells co-cultured with CD1d-transfected RBL cells pre-loaded with KBC-007 at a concentration of 8 ng/ml. KBC-007 (1 μg per animal) increases levels of IL-4, but not IFN-γ, to a similar degree as α-GalCer in mouse serum. KBC-007 (0.5 μg per animal) increases the survival rate of mice immunized with the inactivated influenza A virus A/PR/8/34 in a model of influenza infection.

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

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