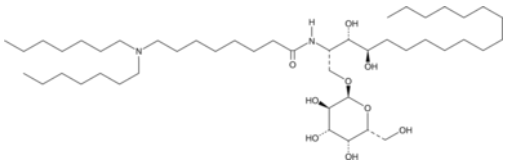
Product Data Sheet

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)CCCCCCCCCCCCCC)NC(CCCCCCCN(CCCCCCC)CCCCCCC)=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.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA