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**Product Data Sheet**

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Product Name: BOP  
Cat. No.: GC50325

**Chemical Properties**

Cas. No. 1947348-42-6

SMILES O=C([C@@H](NC([C@@H]1CCCN1S(=O)(=O)C2=CC=CC=C2)=O)=O)CC3=CC=C(C=C3)OC(N4CCCC4)=O)O[Na]

Formula  $C_{25}H_{28}N_3O_7SNa$  M.Wt 537.56

Solubility  $H_2O$  : 125 mg/mL (232.53 mM; Need ultrasonic) Storage Store at  $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at  $37^{\circ}C$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}C$  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**

Dual  $\alpha 9\beta 1/\alpha 4\beta 1$  integrin inhibitor; rapidly and preferentially mobilizes HSCs and progenitors. Augments HSC mobilization in combination with AMD3100 . High affinity fluorescent derivative R-BC154 also available.

Cao et al (2014) Design, synthesis and binding properties of a fluorescent  $\alpha 9\beta 1/\alpha 4\beta 1$  integrin antagonist and its application as an in vi Org.Biomol.Chem. 12 965

PMID:24363056 |Pepinsky et al (2002) Comparative assessment of the ligand and metal ion binding properties of integrins  $\alpha 9\beta 1$  and  $\alpha 4\beta 1$ . Biochemistry 41 7125

PMID:12033947 |Cao et al (2016) Therapeutic targeting and rapid mobilization of endosteal HSC using a small molecule integrin antagonist. Nat.Commun. 7 11007

PMID:26975966

**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