

Product Data Sheet

Product Name: BGN3
Cat. No.: GC70814

Chemical Properties

Cas. No. 1151762-33-2

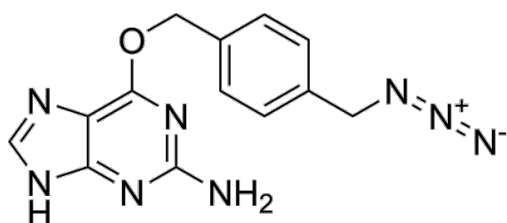
Formula $C_{13}H_{12}N_8O$ M.Wt 296.29

Solubility DMSO : 100 mg/mL (337.51 mM);
Need ultrasonic; Hygroscopic DMSO
has a significant impact on the
solubility of product, please use
newly opened DMSO)

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

BGN3 is a good substrate for the SNAP-tag and H5 enzymes. The activities of SNAP-tag and H5 enzymes on BGN3 are reasonable (IC₅₀= 15.6 and 23.5 μM, respectively). BGN3 is a click chemistry reagent, it contains an Azide group and can undergo copper-catalyzed azide-alkyne cycloaddition reaction (CuAAC) with molecules containing Alkyne groups. Strain-promoted alkyne-azide

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

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cycloaddition (SPAAC) can also occur with molecules containing DBCO or BCN groups.

Substrate specificity of SNAP-tag[®] and H⁵ by competitive inhibition method (IC₅₀) by using SVG as substrate^[1].

References:

[1]. Merlo R, et al. The SNAP-tag technology revised: an effective chemo-enzymatic approach by using a universal azide-based substrate. J Enzyme Inhib Med Chem. 2021;36(1):85-97.

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