
Product Data Sheet

Product Name: Sabutoclax
 Cat. No.: GC10153

Chemical Properties

Cas. No. 1228108-65-3

Chemical Name 2,3,5-trihydroxy-7-methyl-N-[(2R)-2-phenylpropyl]-6-[1,6,7-trihydroxy-3-methyl-5-[[[(2R)-2-phenylpropyl]carbamoyl]naphthalen-2-yl]naphthalene-1-carboxamide

SMILES CC1=C(C(=C2C=C(C(=C(C2=C1)C(=O)NCC(C)C3=CC=CC=C3)O)O)C4=C(C=C5C(=C4O)C=C(C(=C5C(=O)NCC(C)C6=CC=CC=C6)O)O)O)O

Formula C₄₂H₄₀N₂O₈

M.Wt 700.78

Solubility ≥ 205.6 mg/mL in DMSO, ≥ 98.2 mg/mL in EtOH with ultrasonic

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 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

Sabutoclax is an inhibitor of pan-Bcl-2 family with IC₅₀ values of 0.32, 0.31, 0.20 and 0.62 μM for Bcl-2, Bcl-xL, Mcl-1 and Bfl-1, respectively [1].

Sabutoclax is a derivative of apogossypolone. It showed a high binding affinity to Bcl-xL both in NMR binding assay and in ITC assay, with a K_d value of 0.11 μM. Sabutoclax also showed better cell membrane permeability than other apogossypolone derivatives. In PC3 cells, sabutoclax inhibited cell growth with EC₅₀ value of 0.13 μM. In human BP3 cell line, sabutoclax induced cell apoptosis with IC₅₀ value of 0.049 μM. In mice bearing M2182 cancer xenografts, administration of sabutoclax significantly reduced the tumor size. At dose of 5 mg/kg, sabutoclax induced near complete tumor growth suppression [1].

References:

[1] Wei J, Stebbins J L, Kitada S, et al. BI-97C1, an optically pure Apogossypol derivative as pan-active inhibitor of antiapoptotic B-cell lymphoma/leukemia-2 (Bcl-2) family proteins. Journal of medicinal chemistry, 2010, 53(10): 4166-4176.

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

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