

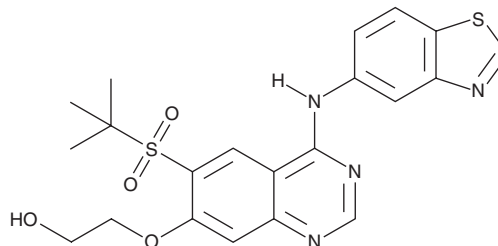
PRODUCT INFORMATION



RIPK2 Inhibitor 1

Item No. 32513

CAS Registry No.: 1423186-80-4
Formal Name: 2-[[4-(5-benzothiazolylamino)-6-[(1,1-dimethylethyl)sulfonyl]-7-quinazolinyloxy]-ethanol
Synonym: Receptor-interacting Serine/Threonine Kinase 2 Inhibitor 1
MF: C₂₁H₂₂N₄O₄S₂
FW: 458.6
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

RIPK2 inhibitor 1 is supplied as a solid. A stock solution may be made by dissolving the RIPK2 inhibitor 1 in the solvent of choice, which should be purged with an inert gas. RIPK2 inhibitor 1 is soluble (≥10 mg/ml) in DMSO.

Description

RIPK2 inhibitor 1 is an inhibitor of receptor-interacting serine/threonine kinase 2 (RIPK2; IC₅₀ = 5 nM for the human enzyme) and an active metabolite of the prodrug GSK2983559 (Item No. 31458).¹ It is selective for RIPK2 over a panel of 295 kinases at 1 μM but does inhibit VEGFR3, VEGFR2, ephrin type-A receptor 6 (EphA6), Abl2, and serine/threonine-protein kinase 10 (STK10) by ≥70% at 1 μM. RIPK2 inhibitor 1 is also selective for RIPK2 over a panel of 138 receptors, ion channels, and enzymes but does bind to melatonin receptor 3 (MT₃) at 10 μM. It inhibits TNF-α production induced by the nucleotide-binding oligomerization domain-containing protein 2 (NOD2) agonist muramyl dipeptide (Item No. 30866) in isolated human whole blood (IC₅₀ = 26 nM). RIPK2 inhibitor 1 reduces IL-1β release in intestinal mucosa explants from patients with Crohn's disease or ulcerative colitis (IC₅₀ = ~10 nM for both).

Reference

1. Haile, P.A., Casillas, L.N., Votta, B.J., *et al.* Discovery of a first-in-class receptor interacting protein 2 (RIP2) kinase specific clinical candidate, 2-((4-(benzo[d]thiazol-5-ylamino)-6-(tert-butylsulfonyl)quinazolin-7-yl)oxy)ethyl dihydrogen phosphate, for the treatment of inflammatory diseases. *J. Med. Chem.* **62**(14), 6482-6494 (2019).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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