PRODUCT INFORMATION



p38 MAPK Inhibitor VIII

Item No. 21229

CAS Registry No.:	321351-00-2	
Formal Name:	[4-[(2-amino-4-bromophenyl)amino]-2-	
Synonyms:	chlorophenyl](2-methylphenyl)-methanone EO 1428, p38 MAP Kinase Inhibitor VIII, p38 Mitogen-activated Protein Kinase Inhibitor VIII	Br
MF:	C ₂₀ H ₁₆ BrClN ₂ O	
FW:	415.7	
Purity:	≥98%	Y N Y
UV/Vis.:	λ _{max} : 241, 339 nm	ŃH ₂ H
Supplied as:	A crystalline solid	-
Storage:	-20°C	
Stability:	≥4 years	
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis		

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Laboratory Procedures

p38 MAPK inhibitor VIII is supplied as a crystalline solid. A stock solution may be made by dissolving the p38 MAPK inhibitor VIII in the solvent of choice. p38 MAPK inhibitor VIII is soluble in organic solvents such as ethanol and DMSO, which should be purged with an inert gas. The solubility of p38 MAPK inhibitor VIII in these solvents is approximately 50 and 100 mM, respectively.

Description

p38 MAP kinase inhibitor VIII is an inhibitor of p38 α (IC₅₀ = 39 nM) and p38 β MAP kinases with 82 and 93% inhibition, respectively, in a kinase assay when used at a concentration of 1 μ M.¹ It is selective for p38 α and 38 β , lacking activity at p38 γ , p38 δ , ERK1/2, and JNK1 at a concentration of 1 μ M. p38 MAP kinase inhibitor VIII inhibits IL-1 β , TNF- α , IL-6, IL-8, and IL-10, but not IFN- γ release from human peripheral blood mononuclear cells (PBMCs; IC50s = 30, 5, 17, 4, 10, and >1,000 nM, respectively). It also decreases ear swelling in mouse models of allergic and chronic irritative contact dermatitis when administered topically at a dose of 0.5 mg/ear.

Reference

1. Ottosen, E.R., Sørensen, M.D., Björkling, F., et al. Synthesis and structure-activity relationship of aminobenzophenones. A novel class of p38 MAP kinase inhibitors with high antiinflammatory activity. J. Med. Chem. 46(26), 5651-5662 (2003).

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.

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1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897 [734] 971-3335 FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.CAYMANCHEM.COM