SZABO SCANDIC

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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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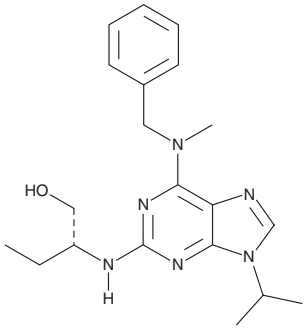
PRODUCT INFORMATION

Aftin-4

Item No. 27341



CAS Registry No.:	866893-90-5
Formal Name:	2R-[[9-(1-methylethyl)-6-[methyl(phenylmethyl)amino]-9H-purin-2-yl]amino]-1-butanol
MF:	$C_{20}H_{28}N_6O$
FW:	368.5
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years

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

Laboratory Procedures

Aftin-4 is supplied as a solid. A stock solution may be made by dissolving the aftin-4 in the solvent of choice. Aftin-4 is soluble in the organic solvent DMSO, which should be purged with an inert gas.

Description

Aftin-4 is an inducer of amyloid-β (1-42) (Aβ42).[1] It selectively increases extracellular Aβ42 over Aβ40 production in N2a-AβPP695 cells when used at concentrations ranging from 1 to 100 mM. *In vivo*, aftin-4 (3-20 nmol/animal, i.c.v.) increases hippocampal Aβ42 content, lipid peroxidation, and production of the pro-inflammatory cytokines IL-1β, IL-6, and TNF-α in mice.[2] It also induces spatial working and spatial reference memory deficits in mice, effects that are reversed by co-administration of the γ-secretase inhibitor BMS-299,897.

References

1. Hochard, A., Oumata, N., Bettayeb, K., *et al.* Aftins increase amyloid-β_{42}, lower amyloid-β_{38}, and do not alter amyloid-β_{40} extracellular production *in vitro*: Toward a chemical model of Alzheimer's disease? *J. Alzheim. Dis.* **35(1)**, 107-120 (2013).
2. Meunier, J., Borjini, N., Gillis, C.N., *et al.* Brain toxicity and inflammation induced *in vivo* in mice by the amyloid-β forty-two inducer aftin-4, a roscovitine derivative. *J. Alzheim. Dis.* **44(2)**, 507-524 (2015).

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