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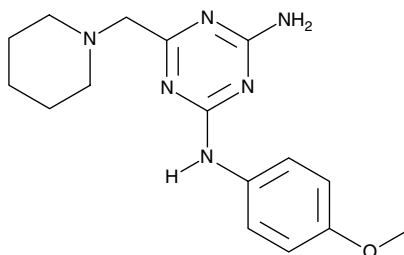
Product Information



BRD32048

Item No. 16516

CAS Registry No.: 433694-46-3
Formal Name: N²-(4-methoxyphenyl)-6-(1-piperidinylmethyl)-1,3,5-triazine-2,4-diamine
MF: C₁₆H₂₂N₆O
FW: 314.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 269 nm



Laboratory Procedures

For long term storage, we suggest that BRD32048 be stored as supplied at -20°C. It should be stable for at least two years.

BRD32048 is supplied as a crystalline solid. A stock solution may be made by dissolving the BRD32048 in the solvent of choice. BRD32048 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of BRD32048 in these solvents is approximately 2 mg/ml in ethanol and 30 mg/ml in DMSO and DMF.

BRD32048 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BRD32048 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. BRD32048 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

ETS variant 1 (ETV1) is a transcription factor oncogene implicated in several cancers where it has been altered by chromosomal translocation, gene amplification, or lineage dysregulation.¹ The ETV1 transcription factor is phosphorylated downstream of MAPK signaling and is acetylated at lysines 33 and 116 by the histone acetyltransferase p300.¹ Both of these events increase the protein half-life of ETV1 and enhance its transcriptional activity. BRD32048 is a substituted [1,3,5]triazine derivative that inhibits ETV1 transcriptional activity by binding to ETV1 (K_D = 17.1 μM *in vitro*), which reduces p300-dependent acetylation and stability of ETV1 and, thereby, promotes its degradation.² At 20-100 μM, BRD32048 can dose-dependently prevent invasion of ETV1-reliant cancer cells in *in vitro* models.²

References

- Oh, S., Shin, S., and Janknecht, R. ETV1, 4 and 5: An oncogenic subfamily of ETS transcription factors. *Biochim. Biophys. Acta.* **1826**(1), 1-12 (2012).
- Pop, M.S., Stransky, N., Garvie, C.W., *et al.* A small molecule that binds and inhibits the ETV1 transcription factor oncoprotein. *Mol. Cancer Ther.* **13**(6), 1492-1502 (2014).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16516

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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