



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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# PRODUCT INFORMATION



**GSK5959**

Item No. 18123

**CAS Registry No.:** 901245-65-6

**Formal Name:** N-[2,3-dihydro-1,3-dimethyl-2-oxo-6-(1-piperidinyl)-1H-benzimidazol-5-yl]-2-methoxy-benzamide

**MF:** C<sub>22</sub>H<sub>26</sub>N<sub>4</sub>O<sub>3</sub>

**FW:** 394.5

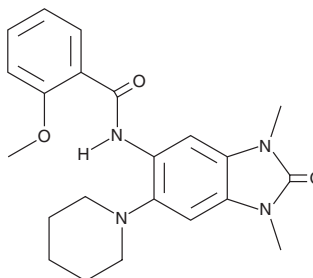
**Purity:** ≥98%

**UV/Vis.:** λ<sub>max</sub>: 208, 240, 323 nm

**Supplied as:** A crystalline solid

**Storage:** -20°C

**Stability:** As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



## Laboratory Procedures

GSK5959 is supplied as a crystalline solid. A stock solution may be made by dissolving the GSK5959 in the solvent of choice. GSK5959 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of GSK5959 in ethanol and DMSO is approximately 1 mg/ml and approximately 10 mg/ml in DMF.

GSK5959 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, GSK5959 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. GSK5959 has a solubility of approximately 0.1 mg/ml in a 1:7 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

## Description

The bromodomain and PHD finger-containing (BRPF) proteins are scaffolding components of chromatin-binding MOZ/MORF histone acetyltransferase complexes, which have activity as transcriptional regulators.<sup>1,2</sup> BRPF1 (BR140 or Peregrin) is important for maintaining Hox gene expression and the development of multiple tissues, axial skeleton, and the hematopoietic system.<sup>2</sup> GSK5959 is a potent, cell-permeable inhibitor of the BRPF1 bromodomain (IC<sub>50</sub> = 80 nM).<sup>3</sup> It exhibits greater than 100-fold selectivity for the BRPF1 bromodomain over a panel of 35 other bromodomains. GSK5959 disrupts chromatin binding of BRPF1 in a cellular assay by blocking the interaction of BRPF1 with histone H3.3.<sup>3</sup>

## References

1. Ullah, M., Pelletier, N., Xiao, L., *et al.* Molecular architecture of quartet MOZ/MORF histone acetyltransferase complexes. *Mol. Cell Biol.* **28**(22), 6828-6843 (2008).
2. Klein, B.J., Lalonde, M.-E., Côté, J., *et al.* Crosstalk between epigenetic readers regulates the MOZ/MORF HAT complexes. *Epigenetics* **9**(2), 186-193 (2014).
3. Demont, E.H., Bamborough, P., Chung, C.-W., *et al.* 1,3-Dimethyl benzimidazolones are potent, selective inhibitors of the BRPF1 bromodomain. *ACS Med. Chem. Lett.* **5**, 1190-1195 (2014).

### 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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