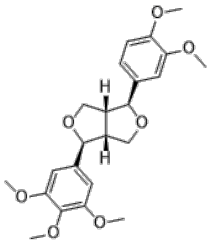
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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Magnolin
Cat. No.	:	PC-28581
CAS No.	:	31008-18-1
Molecular Formula	:	$C_{23}H_{28}O_7$
Molecular Weight	:	416.47
Target	:	ERK
Solubility	:	10 mM in DMSO



Biological Activity

Magnolin is a major component of Magnolia liliiflora, inhibits the Ras/ERKs/RSK2 signaling axis by targeting the active pocket of ERK1 and ERK2 with IC50 of 87 nM and 16.5 nM, respectively, has excellent antioxidant, anti-inflammatory and anti-cancer properties, also is a selective HCAR1 inhibitor with IC50 of 7.1 uM.

References

Lee CJ, et al. BMC Cancer. 2015 Aug 8;15:576.

Zheng L, et al. Chem Commun (Camb). 2026 Oct 14. doi: 10.1039/d6cc02998a.

Zhang M, et al. Int Immunopharmacol. 2024 Jun 15;134:112181.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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