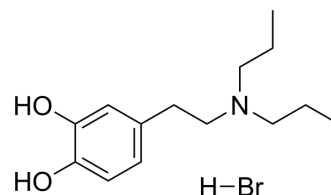


N,N-Dipropyldopamine hydrobromide

Cat. No.:	HY-132219
CAS No.:	65273-66-7
Molecular Formula:	C ₁₄ H ₂₄ BrNO ₂
Molecular Weight:	318.25
Target:	Others
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	N. N-dipropyldopamine is a potent inhibitor of glutamate release and has anticancer activity. The increase of glutamate secretion leads to cancer-induced bone pain (CIBP). N. N-dipropyldopamine plays an analgesic role in CIBP ^[1] .								
IC₅₀ & Target	cystine/glutamate transporter (X _C ⁻) ^[1] IC ₅₀ : 25.45 μM (cystine/glutamate transporter, X _C ⁻) ^[1]								
In Vitro	<p>N,N-dipropyldopamine (10-200 μM, 48 h) inhibits cancer cells growth of MDA-MB-231, MCF-7 and Mat-Ly-Lu, with IC₅₀ values of 25.45, 26.3, 28.45 μM, respectively ^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MDA-MB-231, MCF-7 and Mat-Ly-Lu</td> </tr> <tr> <td>Concentration:</td> <td>0-200 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>48 h</td> </tr> <tr> <td>Result:</td> <td>Inhibited cell growth with IC₅₀ values of 25.45 μM (MDA-MB-231), 26.3 μM (MCF-7), 28.45 μM (Mat-Ly-Lu).</td> </tr> </table>	Cell Line:	MDA-MB-231, MCF-7 and Mat-Ly-Lu	Concentration:	0-200 μM	Incubation Time:	48 h	Result:	Inhibited cell growth with IC ₅₀ values of 25.45 μM (MDA-MB-231), 26.3 μM (MCF-7), 28.45 μM (Mat-Ly-Lu).
Cell Line:	MDA-MB-231, MCF-7 and Mat-Ly-Lu								
Concentration:	0-200 μM								
Incubation Time:	48 h								
Result:	Inhibited cell growth with IC ₅₀ values of 25.45 μM (MDA-MB-231), 26.3 μM (MCF-7), 28.45 μM (Mat-Ly-Lu).								

REFERENCES

[1]. Fazzari J, et al. Inhibitors of glutamate release from breast cancer cells; new targets for cancer-induced bone-pain. Sci Rep. 2015 Feb 11;5:8380.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA