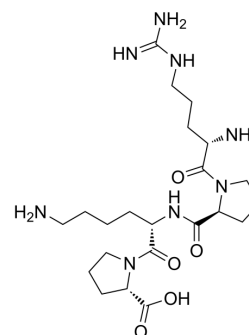


Substance P(1-4)

Cat. No.:	HY-P3598
CAS No.:	57468-16-3
Molecular Formula:	C ₂₂ H ₄₀ N ₈ O ₅
Molecular Weight:	496.6
Sequence Shortening:	RPKP
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Substance P(1-4) is a potent neurokinin receptors (NK-R) antagonist. Substance P(1-4) has regulation of normal hematopoiesis and inhibits endogenous erythroid colony (EEC) formation ^[1] .							
In Vitro	Substance P(1-4) (0.1 nM-1 μM) inhibits endogenous erythroid colony (EEC) formation in PV bone marrow cultures ^[1] . Substance P(1-4) (0.1 nM-1 μM; CD36+/GpA- cells) decreases of erythroid colony numbers of 47% and inhibits proliferation of PV CD36+/GpA- cells of 30 % ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]							
	<table border="1"> <tr> <td>Cell Line:</td> <td>PV CD36+/GpA- cells</td> </tr> <tr> <td>Concentration:</td> <td>0.1 nM-1 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>2 days</td> </tr> <tr> <td>Result:</td> <td>Inhibited proliferation of PV CD36+/GpA- cells of 30 %.</td> </tr> </table>	Cell Line:	PV CD36+/GpA- cells	Concentration:	0.1 nM-1 μM	Incubation Time:	2 days	Result:
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Concentration:	0.1 nM-1 μM							
Incubation Time:	2 days							
Result:	Inhibited proliferation of PV CD36+/GpA- cells of 30 %.							
In Vitro	Apoptosis Analysis ^[1]							
	<table border="1"> <tr> <td>Cell Line:</td> <td>PV CD36+/GpA- cells</td> </tr> <tr> <td>Concentration:</td> <td>10 nM</td> </tr> <tr> <td>Incubation Time:</td> <td>2 days</td> </tr> <tr> <td>Result:</td> <td>Increased the percentage of cell death of 27.3%.</td> </tr> </table>	Cell Line:	PV CD36+/GpA- cells	Concentration:	10 nM	Incubation Time:	2 days	Result:
Cell Line:	PV CD36+/GpA- cells							
Concentration:	10 nM							
Incubation Time:	2 days							
Result:	Increased the percentage of cell death of 27.3%.							

REFERENCES

[1]. Le Gall C, et, al. Inhibitory effect of the substance P and its derivative on erythropoietin-independent growth of erythroid progenitors in polycythemia vera. *Leuk Res.* 2008 May;32(5):743-54.

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