

[Tyr8] Bradykinin

Cat. No.:	HY-P3751
CAS No.:	32222-00-7
Molecular Formula:	C ₅₀ H ₇₃ N ₁₅ O ₁₂
Molecular Weight:	1076.21
Sequence Shortening:	RPPGFSPYR
Target:	Bradykinin Receptor; ERK
Pathway:	GPCR/G Protein; MAPK/ERK Pathway; Stem Cell/Wnt
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

BIOLOGICAL ACTIVITY

Description	[Tyr8] Bradykinin is a B ₂ kinin receptor agonist. [Tyr8] Bradykinin also stimulates ERK1/2 phosphorylation. [Tyr8] Bradykinin can be used as an internal standard ^[1] .	
IC ₅₀ & Target	ERK1	ERK2
In Vitro	[Tyr8] Bradykinin (10 nM, 2 min) produces a rapid increase in phosphorylated ERK1/2 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]	
	Cell Line:	Serum-deprived trabecular meshwork cells
	Concentration:	10 nM
	Incubation Time:	2 min
	Result:	Produced a rapid increase in phosphorylated ERK1/2 that was equivalent in magnitude to that observed for Bradykinin (HY-P0206).

REFERENCES

- [1]. Webb JG, et al. Bradykinin activation of extracellular signal-regulated kinases in human trabecular meshwork cells. Exp Eye Res. 2011 Jun;92(6):495-501.
- [2]. Wilson SR, et al. Determination of bradykinin and arg-bradykinin in rat muscle tissue by microdialysis and capillary column-switching liquid chromatography with mass spectrometric detection. J Sep Sci. 2005 Sep;28(14):1751-8.

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

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