

Produktinformation



Forschungsprodukte & Biochemikalien
Zellkultur & Verbrauchsmaterial
Diagnostik & molekulare Diagnostik
Laborgeräte & Service

Weitere Information auf den folgenden Seiten! See the following pages for more information!



Lieferung & Zahlungsart siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

ALK3 (BMPR1A) (Q233D), GST-Tag Recombinant

Product Information

Description	Decembinant human (1/22 (02220) (hana marphaganatia protain recentor (A)
Description:	Recombinant human ALK3 (Q233D) (bone morphogenetic protein receptor IA),
	encompassing amino acids 187-end with an Q233D mutation. This construct contains
	an N-terminal GST-tag. The recombinant protein was affinity purified and is active.
Background:	ALK3 (bone morphogenetic protein receptor type IA), also known as BMPR1A or CD292
	(cluster of differentiation 292), is a bone morphogenic protein receptor involved in BMP (bone morphogenic protein) signal transduction. ALK3 maintains cell stemness by
	inhibiting Wnt signaling. It is involved in juvenile polyposis syndrome, Cowden's disease
	and kidney injury. The development of inhibitors and agonists may provide new
	therapeutic opportunities for the regeneration and repair of kidney.
Species:	Human
Construct:	ALK3 (Q233D) (GST-187-end)
Mutation:	Q233D
Concentration:	0.10 mg/ml
Expression System:	Sf9
Purity:	≥90% (Purity calculation does not include co-purifying Glutathione-binding proteins.)
Format:	Aqueous buffer solution.
Formulated In:	50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM Glutathione, 0.1 mM EDTA, 0.25 mM
	DTT, 0.1 mM PMSF, 25% glycerol
MW:	66 kDa
Genbank Accession:	NM_004329
Stability:	At least 6 months at -80°C.
Storage:	
Instructions for Use:	Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before
	opening. Aliquot into small volumes and flash freeze for long term storage. Avoid
Assay Conditions:	multiple freeze/thaw cycles. ALK3 (Q233D) activity was measured by using the TGFBR1 peptide substrate
Assay conditions.	(KKKVLTQMGSPSIRCS(pS)VS) diluted in distilled water to a working concentration of 1
	mg/ml, in a [33P]-ATP based assay. Reaction was initiated by mixing increasing amounts
	of ALK3 (Q233D) with 1250 pmoles of [33P]-ATP in 5 mM MOPS, pH 7.2, 2.5 mM β -
	glycerol-phosphate, 5 mM MgCl ₂ , 0.4 mM EDTA, 50 ng/ μ l BSA prepared with 50 μ M
	DTT, 50 μ M ATP and substrate at a final concentration of 200 μ g/ml.
	The reaction was initiated by addition of [33P]-ATP Assay Cocktail, followed by a 15-
	minute incubation at 30°C. The reaction was terminated by spotting the reaction
	mixture on phosphocellulose P81 paper, air-dry and three 10-minute washes with 1%
	phosphoric acid solution. Radioactivity was measured in a scintillation counter. The
	corrected activity (RLU) was calculated by removing the blank value for each sample.
	The Kinase Specific Activity was calculated as follows: RLU / [(specific activity of [33P]-
	ATP in cpm/pmol)*(Reaction time in min)*(Enzyme amount in μ g or mg)] * [(Reaction
	Volume) / (Spot Volume)]. The blank was determined from a "no substrate" sample by
	replacing the substrate solution with an equal volume of distilled water.
Applications:	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.



ALK3 (BMPR1A) (Q233D), GST-Tag Recombinant

Quality Control Data



