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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Data Sheet

Fucokinase

Human, recombinant, N-terminal FLAG-tag
Catalog # 71077
Lot#: 130129 Conc.: 0.34 mg/ml

Formulated in: 40 mM Tris pH 8.0, 110 mM NaCl, 2.2 mM KCl, 0.04% Tween, 3 mM DTT, 20% glycerol, and 80 ng/µL FLAG peptide.

Stability: >6 months at –80°C

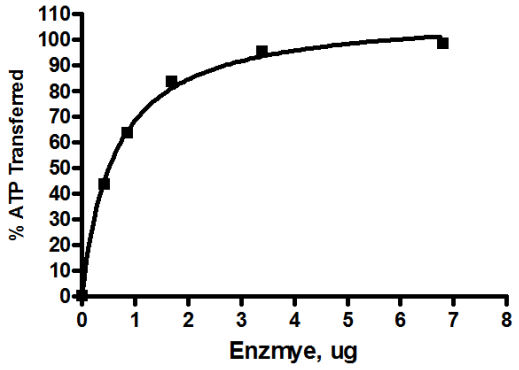
Reference(s):

1. Hinderlich, S., *et al., Biochem Biophys Res Commun.* 2002 Jun 14; **294(3)**:650-4.
2. Zeitler, R., *et al. J. Enz. Inhib.* 1997 Feb; **11(4):**265-73.

Description: Human fucokinase (GenBank Accession No. NM_145059), amino-acids 2-1084(end) with N-terminal FLAG-tag, MW = 118.6 kDa, expressed in baculovirus using an Sf9 insect cell expression system.
Specific Activity: 85.3 pmole/min/µg
Assay Conditions: The reaction mixture contained 50 mM Tris-HCl, pH 8.0, 5 mM $MgCl_2$, 2 mM L-Fucose, 100 µM ATP, and various amount of fucokinase in a final volume of 50 µL. The reaction was incubated at 37˚C for 1 hr, and the amount of ATP consumed was calculated using Kinase-Glo Plus® reagent (Promega).
Application: Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

Quality Assurance

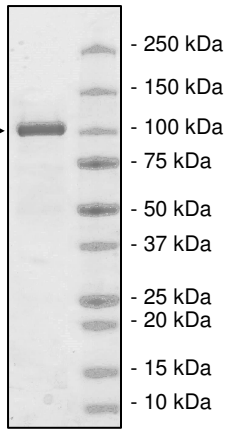
Specific Activity



4-20% SDS-PAGE
Coomassie staining

Lane 1:
2 µg Fucokinase
Lane 2:
Protein Marker

MW: 118.6 kDa
Purity: ≥95%



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Sequence:

MDYKDDDDK**EQPKGVDWTVIILTCQYKDSVQVFQRELEVRQKREQIPAGTLLLAVEDPEK
RVGSGGATLNALLVAAEHLSARAGFTVVTSDVLHSAWILILHMGRDFPFDDCGRAFTCLP
VENPEAPVEALVCNLDCLLDIMTYRLGPGSPPGVWVCSTDMLLSVPANPGISWDSFRGA
RVIALPGSPAYAQNHGVYLTDPQGLVLDIYYQGTEAEIQRCVRPDGRVPLVSGVVFFSVET
AERLLATHVSPPLDACTYLGLDSGARPVQLSLFFDILHCMAENVTREDFLVGRPPELGQG
DADVAGYLQSARAQLWRELRDQPLTMAYVSSGSYSYMTSSASEFLLSLTLPGAPGAQIV
HSQVEEQQLLAAGSSVVSCLLEGPVQLGPGSVLQHCHLQGPIHIGAGCLVTGLDTAHSK
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LECGDLAAGVEALAQERDKWLSRPALLVRAARHYEGAGQILIRQAVMSAQHFVSTEQVE
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ELWLAVGPRQDEMTVKIVCRCLADLRDYCQPHAPGALLKAAFICAGIVHVHSELQLSEQL
LRTFGGGFELHTWSELPHGSGLGTSSILAGTALAALQRAAGRVVGTEALIHAVLHLEQVL
TTGGGWQDQVGGLMPGIKVGRSRAQLPLKVEVEEVTVPEGFVQKLNDHLLLVYTGKTRL
ARNLLQDVLRSWYARLPAVVQNAHSLVRQTEECAEGFRQGSLPLLGQCLTSYWEQKKL
MAPGCEPLTVRRMMDVLAPHVHGQSLAGAGGGGFLYLLTKEPQQKEALEAVLAKTEGL
GNYSIHLVEVDTQGLSLKLLGTEASTCCPFP**

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