

Recombinant Active Human AAK1 Protein (1-465), N-GST tagged

Cat. No. AAK1-893H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human AAK1 (1-465) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.

Species

Human

Source

Sf9 Cells

ProteinLength

1-465 a.a.

Description

This gene encodes a member of the SNF1 subfamily of serine/threonine protein kinases. Adaptor-related protein complex 2 (AP-2 complexes) functions during receptor-mediated endocytosis to trigger clathrin assembly, interact with membrane-bound receptors, and recruit encodytic accessory factors. The encoded protein interacts with and phosphorylates a subunit of the AP-2 complex, which promotes binding of AP-2 to sorting signals found in membrane-bound receptors and subsequent receptor endocytosis. Its kinase activity is stimulated by clathrin. This kinase has been shown to play an important role in regulating the clathrin-mediated endocytosis of the rabies virus, facilitating infection. Inhibitors of this kinase are being studied as candidate therapeutics to disrupt the entry of viruses, including SARS-CoV-2, into target cells. It is also involved in positive regulation of Notch pathway signaling in mammals. Alternatively spliced transcript variants have been described, but their biological validity has not been determined.

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Bio-activity	9.2 nmol/min/mg
Molecular Mass	78 kDa
Purity	>80%
Stability	1yr at -70 centigrade from date of shipment
Storage	Store product at –70 centigrade. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Concentration	0.1 µg/µL
Storage Buffer	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DIT, 0.1mM PMSF, 25% glycerol.

GENE INFORMATION

Gene Name	AAK1 AP2 associated kinase 1 [Homo sapiens (human)]
Official Symbol	AAK1
Synonyms	AAK1; AP2 associated kinase 1; AP2-associated protein kinase 1; adaptor-associated kinase 1; EC 2.7.11.1
Gene ID	22848
mRNA Refseq	NM_014911
Protein Refseq	NP_055726

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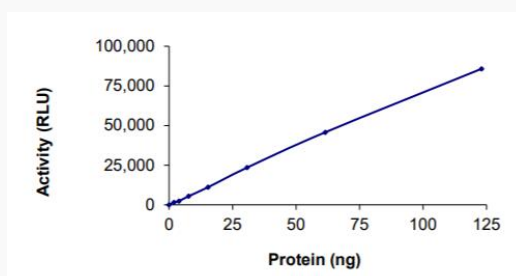
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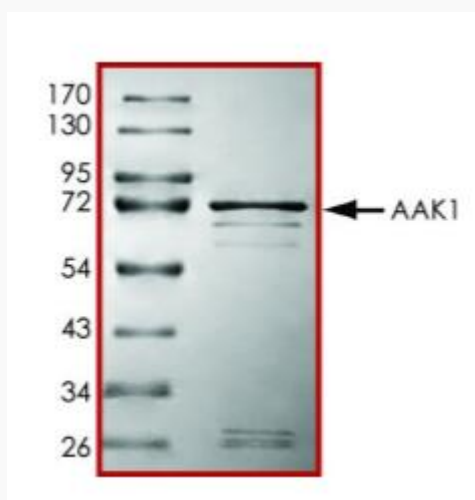
UniProt ID Q2M2I8

Specific activity



The specific activity of AAK1 was determined to be 9.2 nmol/min/mg

SDS-PAGE



The purity of AAK1 was determined to be >80% by densitometry, AAK1 approx. MW 78 kDa.

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