

## FES Protein, Human (sf9, His-GST)

<b>Cat. No.:</b>	HY-P73050
<b>Synonyms:</b>	Tyrosine-protein kinase Fes/Fps; Proto-oncogene c-Fes; FES; FPS
<b>Species:</b>	Human
<b>Source:</b>	Sf9 insect cells
<b>Accession:</b>	P07332-1 (M1-R822)
<b>Gene ID:</b>	2242
<b>Molecular Weight:</b>	Approximately 110 kDa

### PROPERTIES

#### AA Sequence

M G F S S E L C S P	Q G H G V L Q Q M Q	E A E L R L L E G M	R K W M A Q R V K S
D R E Y A G L L H H	M S L Q D S G G Q S	R A I S P D S P I S	Q S W A E I T S Q T
E G L S R L L R Q H	A E D L N S G P L S	K L S L L I R E R Q	Q L R K T Y S E Q W
Q Q L Q Q E L T K T	H S Q D I E K L K S	Q Y R A L A R D S A	Q A K R K Y Q E A S
K D K D R D K A K D	K Y V R S L W K L F	A H H N R Y V L G V	R A A Q L H H Q H H
H Q L L L P G L L R	S L Q D L H E E M A	C I L K E I L Q E Y	L E I S S L V Q D E
V V A I H R E M A A	A A A R I Q P E A E	Y Q G F L R Q Y G S	A P D V P P C V T F
D E S L L E E G E P	L E P G E L Q L N E	L T V E S V Q H T L	T S V T D E L A V A
T E M V F R R Q E M	V T Q L Q Q E L R N	E E E N T H P R E R	V Q L L G K R Q V L
Q E A L Q G L Q V A	L C S Q A K L Q A Q	Q E L L Q T K L E H	L G P G E P P P V L
L L Q D D R H S T S	S S E Q E R E G G R	T P T L E I L K S H	I S G I F R P K F S
L P P P L Q L I P E	V Q K P L H E Q L W	Y H G A I P R A E V	A E L L V H S G D F
L V R E S Q G K Q E	Y V L S V L W D G L	P R H F I I Q S L D	N L Y R L E G E G F
P S I P L L I D H L	L S T Q Q P L T K K	S G V V L H R A V P	K D K W V L N H E D
L V L G E Q I G R G	N F G E V F S G R L	R A D N T L V A V K	S C R E T L P P D L
K A K F L Q E A R I	L K Q Y S H P N I V	R L I G V C T Q K Q	P I Y I V M E L V Q
G G D F L T F L R T	E G A R L R V K T L	L Q M V G D A A A G	M E Y L E S K C C I
H R D L A A R N C L	V T E K N V L K I S	D F G M S R E E A D	G V Y A A S G G L R
Q V P V K W T A P E	A L N Y G R Y S S E	S D V W S F G I L L	W E T F S L G A S P
Y P N L S N Q Q T R	E F V E K G G R L P	C P E L C P D A V F	R L M E Q C W A Y E
P G Q R P S F S T I	Y Q E L Q S I R K R	H R	

**Biological Activity** The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.

**Appearance** Solution.

**Formulation** Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 10% glycerol

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** N/A

**Storage & Stability**

Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

**Shipping**

Shipping with dry ice.

**DESCRIPTION****Background**

FES, a tyrosine-protein kinase, functions downstream of cell surface receptors, contributing to the regulation of various cellular processes, including the actin cytoskeleton dynamics, microtubule assembly, cell attachment, and cell spreading. It plays a crucial role in FCER1-mediated signaling in mast cells, influencing mast cell degranulation, and acts downstream of the KIT receptor. Additionally, FES is involved in cell differentiation, promoting neurite outgrowth in response to NGF signaling. It contributes to cell scattering and migration triggered by HGF-induced activation of EZR. FES phosphorylates key proteins such as BCR, leading to the down-regulation of BCR kinase activity, as well as HCLS1/HS1, PECAM1, STAT3, and TRIM28, underscoring its diverse regulatory functions in cellular signaling pathways.

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

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