Recombinant Human S100G, His-tagged

Cat. No. S100G-3735H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Total 87 AA. MW: 10.04 kDa (calculated). N-Terminal His-tag, 9 extra AA (highlighted).
Species	Human
Source	E.coli
Description	Protein S100-G is a protein that in humans is encoded by the S100G gene. This gene encodes calbindin D9K, a vitamin D-dependent calcium-binding protein. This cytosolic protein belongs to a family of calcium-binding proteins that includes calmodulin, parvalbumin, troponin C, and S100 protein. In the intestine, the protein is vitamin D-dependent and its expression correlates with calcium transport activity. The protein may increase Ca absorption by buffering Ca in the cytoplasm and increase ATP-dependent Ca transport in duodenal basolateral membrane vesicles.
Form	Filtered (0,4 μm) and lyophilized in 0.5 mg/mL in 20mM TRIS, 50mM NaCl, pH 7.5.
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Applications	Western blotting
Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of amino acids	MKHHHHHHAS TKKSPEELKR IFEKYAAKEG DPDQLSKDEL KLLIQAEFPS LLKGPNTLDD LFQELDKNGD GEVSFEEFQV LVKKISQ
Storage	Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

GENE INFORMATION

Gene Name	S100G S100 calcium binding protein G [Homo sapiens]
Official Symbol	S100G
Synonyms	S100G; S100 calcium binding protein G; CABP; CABP1; CALB3; CABP9K; MGC138379; protein S100-G; calbindin D9K; OTTHUMP00000022988; S100 calcium-binding protein G; vitamin D-dependent calcium-binding protein, intestinal; calbindin 3, (vitamin D-dependent calcium-binding protein); S100D
Gene ID	795
mRNA Refseq	NM_004057
Protein Refseq	NP_004048
MIM	302020
UniProt ID	P29377
Chromosome	Xp22.2

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Location	
Pathway	Mineral absorption
Function	calcium ion binding; vitamin D binding

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA