

Recombinant Mouse Slc14a1 Protein, MYC/DDK-tagged

Cat. No. Slc14a1-029M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse solute carrier family 14 (urea transporter), member 1 (Slc14a1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Urea channel that facilitates transmembrane urea transport down a concentration gradient. A constriction of the transmembrane channel functions as selectivity filter through which urea is expected to pass in dehydrated form. The rate of urea conduction is increased by hypotonic stress. Plays an important role in the kidney medulla collecting ducts, where it allows rapid equilibration between the lumen of the collecting ducts and the interstitium, and thereby prevents water loss driven by the high concentration of urea in the urine. Facilitates urea transport across erythrocyte membranes. May also play a role in transmembrane water transport, possibly by indirect means.
Molecular Mass	42.6 kDa
Purity	>80%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

 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

Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Slc14a1 solute carrier family 14 (urea transporter), member 1 [Mus musculus (house mouse)]
Official Symbol	Slc14a1
Synonyms	Slc14a1; solute carrier family 14 (urea transporter), member 1; UT-B; Utb1; 2610507K20Rik; 3021401A05Rik; urea transporter 1; solute carrier family 14 member 1; urea transporter B; urea transporter, erythrocyte
Gene ID	108052
mRNA Refseq	NM_028122
Protein Refseq	NP_082398
UniProt ID	Q8VHL0

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