

Product datasheet for **TP516943**

Slc14a1 (NM_028122) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Purified recombinant protein of Mouse solute carrier family 14 (urea transporter), member 1 (Slc14a1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species: Mouse
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >MR216943 representing NM_028122
Red=Cloning site **Green**=Tags(s)

MEDSPTMVKVDRGENQILSCRGRRCGFKVLGYVTGDMKEFANWLKDKPVVLQFMDWILRGISQVWFVSNP
ISGILILVGLLQNPWWALCGCVGTWVSTLTALLLSQDRSAIAAGLQGYNATLVGILMAVFSNKGDYFWW
LIFPVSAMSMTCPVFSSALSSVLSKWDLPVFTLPFNMALSMYLSATGHYNTFFPSKLFPTVSSVPNITWS
ELSALELLKSLPVGVGQIYGCDNPWTGGIFLCAILLSSPLMCLHAAIGSLLGVIAGLSLAAPFEDIYFGL
WGFNSSLACIAIGGMFMALTWQTHLLALACALFTAYFGACMAHLMMAVHLPACTWSFCLATLLFLLLTTK
NPNIYRMPLSKVTYSEENRIFYLQNKKRMVESPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK
Predicted MW: 42.6 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage: Store at -80°C after receiving vials.
Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq: [NP_082398](#)
Locus ID: 108052
UniProt ID: [Q8VHL0](#)



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RefSeq Size: 3675

Cytogenetics: 18 E3

RefSeq ORF: 1152

Synonyms: 2610507K20Rik; 3021401A05Rik; UT-B; Utb1

Summary: 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.[UniProtKB/Swiss-Prot Function]