

DATA SHEET

> Protein Marker

Protein Marker is a three-color protein standard with 12 pre-stained proteins covering a wide range molecular weights from 10 to 245 kDa. Proteins are covalently coupled with a blue chromophore except for two reference bands (one green and one red band at 25 kDa and 75 kDa respectively) when separated on SDS-PAGE (Tris-glycine buffer). The Protein Marker is designed for monitoring protein separation during SDS-polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes (PVDF, nylon, or nitrocellulose) and for approximating the size of proteins. The ladder is supplied in gel loading buffer and is ready to use.

cat. no.	amount	note
STS-PM	500ul	10-245 kDa

FOR RESEARCH USE ONLY

SHIPPING

Shipped on green ice.

RECOMMENDED LOAD

5ul per lane

STORAGE

Stable for up to 3 months at 4°C. For long term storage, store at -20°C.

- 3 µl or 5 µl per loading for clear visualization during electrophoresis on 15-well or 10-well mini-gel, respectively.
- 1.5~2.5 µl per well for general Western transferring.
- Apply more for thicker (> 1.5 mm) or larger gel.

SHELF LIFE

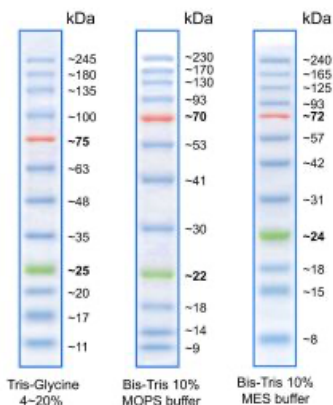
12 months

FORM

liquid

GUIDE FOR MOLECULAR WEIGHT EXTIMATION (kDa)

Migration patterns of **StoS Protein Marker** in different electrophoresis conditions are listed below:



% of migration	Tris Glycine Gel						4-12% Bis Tris Gel		3-8% Tris Acetate	EVOgel
	6 %	8 %	10 %	12 %	14 %	16 %	MOPS	MES	TA	TG
0 %										
10 %		245	245	245	245	245		240		240
20 %		180	180	180	180	180		165	235	180
30 %		135	100	75	63	48		93	165	95
40 %	245	100	63	48	35	25	93	57	120	57
50 %	180	75	48	35	25	20	70	42	70	45
60 %	135	63	35	25	20	17	48	31	55	36
70 %	100	48	25	20	17	11	41	24	45	36
80 %	75	35	20	17	11		30	15	30	26
90 %	63		17	11			22	8	27	23
100 %							18	14	15	19

Note. The apparent molecular weight of each protein (kDa) has been determined by calibration against an unstained protein ladder in each electrophoresis condition.