Human sialidase NEU4 long and short are extrinsic proteins bound to outer mitochondrial membrane and the endoplasmic reticulum, respectively

Alessandra Bigi¹, Lavinia Morosi¹, Chiara Pozzi¹, Matilde Forcella¹, Guido Tettamanti², Bruno Venerando³, Eugenio Monti⁴, and Paola Fusi¹

Supplementary data:

Supplementary Figures Legends

Supplementary Figure 1

Supplementary Figure 2
**Fig. S1.** Time course of HsNEU4 long and HsNEU4 short expression in COS-7 cells monitored by indirect immunofluorescence staining. COS-7 cells were transiently transfected with HsNEU4 short (A) or long (B) and subjected to immunofluorescence staining and confocal microscopy analysis at 5, 10, 24 and 36 h after transfection. Cells were double-stained with anti-c-myc antibody, for detection of NEU4 long or short (panels a-a’’’), and anti-cytochrome c (cyt c) antibody (panels b-b’’’) as mitochondrial marker. Overlay images are shown in panels c, c’, c’’ and c’’’. Scale bars: 45 µm (panel a), 30 µm (panel a’), 35 µm (panel a’’), 25 µm (panel a’’’) in (A), 35 µm (panels a-a’’’) in (B).

**Fig. S2.** Mitochondrial localization of HsNEU4 long and HsNEU4 short in COS-7 and HeLa cells determined by indirect immunofluorescence staining. COS-7 (A) and HeLa (B) cells were transiently transfected with HsNEU4 long or short and subjected to immunofluorescence staining and confocal microscopy analysis. Cells were double-stained with anti-c-myc antibody, for detection of NEU4 short (panel a) or long (panel d), and anti-cytochrome c (cyt c) antibody (panels b and e) as mitochondrial marker. Overlay images are shown in panels c and f. Scale bars: 35 µm (panel a), 30 µm (panel d) in (A), 40 µm (panel a), 35 µm (panel d) in (B).
Fig. S1
Fig. S2