MSP Nanodiscs: Different Features for different purposes.

**Size:**
- MSP1D1 ΔH5 Scaffolding Diameter of 7-8 nm
- MSP1D1 Scaffolding Diameter of 9-10 nm
- MSPE3D1 Scaffolding Diameter of 12-14 nm
- MSP2N2 Scaffolding Diameter ~ 17 nm

**Species:**
- Human
- Mouse
- Rat
- Alpaca

**Tags:**
- MSP with His-tag
- untagged MSP
- Nanodisc Biotin labeled
- Nanodisc unlabeled

**Lipids:**
- POPC
- DMPC
- DMPG

**Mutations:**
- Unmutated
- D73C MSPs
**Size:** The size of a MSP nanodisc depends on the used membrane scaffolding protein. Choosing the correct size of the nanodisc is critical if your assay e.g. cryo-EM requires that only one membrane protein is connected to each disc.

**Species:** Immunization assays require knowledge about the origin of the protein that is used. To cover most situations each of our MSPs can be purchased in one of four different backgrounds.

**Tags:** We offer our pre-assembled nanodiscs and MSPs tagged and untagged. MSPs can be purchased with and without a poly-his tag. Meanwhile the pre-assembled nanodiscs can be optionally labeled with biotin at their phospholipids.

**Lipids:** Different membrane proteins prefer different phospholipids in their surroundings to work properly. Sometimes screening is necessary to determine the correct phospholipid. Our store includes the most commonly used phospholipids. All products listed here are pre-assembled nanodiscs are nanodisc assembly kits. They are usually used for cell-free expressed proteins.

**Mutations:** All MSPs can be purchased in *wt* form in with a D73C mutation. This additional cysteine can be used for further modification like biotinylation for example.