

• - References

Reference #	PMID	Paper title	Authors	Year
Ref. 1	22031296	DHHC-7 and -21 are palmitoyltransferases for sex steroid receptors.	Pedram A et al.	2012
Ref. 2	22446104	Palmitoylation regulates 17 β -estradiol-induced estrogen receptor- α degradation and transcriptional activity.	La Rosa P et al.	2012
Ref. 3	15033483	S-palmitoylation modulates human estrogen receptor- α functions.	Acconcia F et al.	2004

• - Studies

Study #	Reference	Organism	Cell type	Subcellular location	Technique(s)	Palmitome study?
Study 1	Pedram A et al., 2012	Homo sapiens	MCF7	Non-nuclear membrane	Labeling of substrate with [3H]palmitate, Depletion of palmitoyltransferase with siRNA	No
Study 2	La Rosa P et al., 2012	Homo sapiens	MCF7	Nucleus	Point mutation of substrate, Inhibition of palmitoylation with 2-bromopalmitate, Labeling of substrate with [3H]palmitate	No
Study 3	Acconcia F et al., 2004	To be annotated	To be annotated	To be annotated	To be annotated	No

• - Palmitoylation hits and sites

Hit ID	Study #	Reference	Hit list	Isoform #	Sites (ID, position, characterisation techniques)
SPalmH:7426	Study 1	-	-	-	None
SPalmH:7831	Study 2	-	-	-	None
SPalmH:10015	Study 3	-	-	-	SPalmS:303 , Cys ⁴⁴⁷

• - Cysteine summary and predictions

Pos in alignment	185	188	202	205	221	227	237	240	245	381	417	447	530
Topology	U	U	U	U	U	U	U	U	U	U	U	U	U
Disulfide													
SS prediction	E	E	E	H	C	C	C	H	H	H	E	H	E
SS UniProt	NA	C	NA	H	NA	NA	NA	H	H	H	NA	H	NA
Isoform 1 [Main isoform]	Cys ¹⁸⁵ 5.277 -1.0491354	Cys ¹⁸⁸ 5.536 -0.54056021	Cys ²⁰² 1.717 -0.24557299	Cys ²⁰⁵ 2.276 -0.31421495	Cys ²²¹ 1.713 -1.1988361	Cys ²²⁷ 0.556 -1.2599393	Cys ²³⁷ 2.007 -0.65159594	Cys ²⁴⁰ 1.7 -0.60416009	Cys ²⁴⁵ 1.996 -0.63434356	Cys ³⁸¹ 3.33 -0.63655181	Cys ⁴¹⁷ 4.432 -0.86219975	Cys ⁴⁴⁷ 11.812 -0.67958007	Cys ⁵³⁰ 9.426 -0.96350253
Isoform 2	Cys ¹⁸⁵ 5.277	Cys ¹⁸⁸ 5.536	Cys ²⁰² 1.717	Cys ²⁰⁵ 2.276	Cys ²²¹ 1.713	Cys ²²⁷ 0.556	Cys ²³⁷ 2.007	Cys ²⁴⁰ 1.7	Cys ²⁴⁵ 1.996	Cys ²⁶⁹ 5.056	Cys ³⁰⁵ 4.432	Cys ³³⁵ 11.812	Cys ⁴¹⁸ 9.426
Isoform 3	Cys ¹² 11.755	Cys ¹⁵ 7.174	Cys ²⁹ 1.717	Cys ³² 2.276	Cys ⁴⁸ 1.713	Cys ⁵⁴ 0.556	Cys ⁶⁴ 2.007	Cys ⁶⁷ 1.7	Cys ⁷² 1.996	Cys ²⁰⁸ 3.33	Cys ²⁴⁴ 4.432	Cys ²⁷⁴ 11.812	Cys ³⁵⁷ 9.426
Isoform 4	Cys ¹² 11.755	Cys ¹⁵ 7.174	Cys ²⁹ 1.717	Cys ³² 2.276	Cys ⁴⁸ 1.713	Cys ⁵⁴ 0.556	Cys ⁶⁴ 2.007	Cys ⁶⁷ 1.7	Cys ⁷² 1.996	Cys ²⁰⁸ 3.33	Cys ²⁴⁴ 4.432	Cys ²⁷⁴ 9.379	

Legend:

Topology	U	Undefined
	E	Extracellular/Lumenal
	T	Transmembrane
	C	Cytosolic/Nuclear
Prediction scores	From top to bottom: Cysteine position, CSS-Palm 4.0 score, PalmPred score	
	Color code for cysteine position: Predicted (high confidence prediction with CSS-Palm or/and PalmPred) / Predicted but not validated (in terms of disulfide bond and cellular location) / Not predicted	
	Color code for CSS-Palm 4.0 : High confidence, Medium confidence, Low confidence, Not predicted.	
Color code for PalmPred : High confidence (score > 0.4), Medium confidence (0.1 > score > 0.4), Low confidence (score < 0.1), Not predicted.		