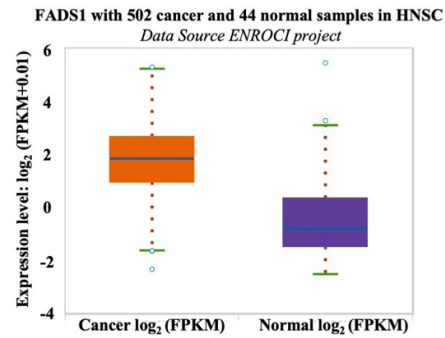


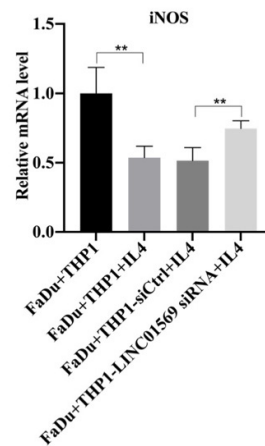
## Supplementary figure legends

**Figure S1**



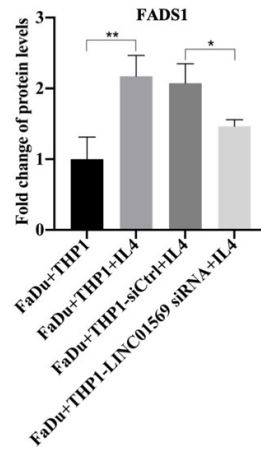
**Fig. S1** FADS1 expression in normal tissues and HNSCC tissues.

**Figure S2**



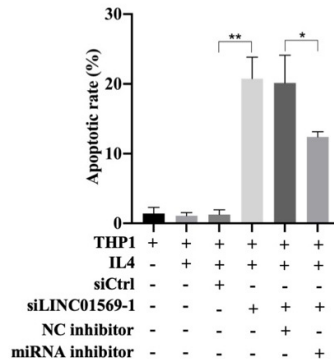
**Fig. S2** Relative mRNA expression of iNOS. qRT-PCR analysis was performed to measure the mRNA level of M2 polarization marker iNOS in tumor tissues.

**Figure S3**



**Fig. S3 The relevant quantification results.** Quantification analysis of FADS1 protein expression in figure 7G. \*P<0.05; \*\*P<0.01.

**Figure S4**



**Fig. S4 The relevant quantification results of apoptotic cells.** Quantification results of apoptotic rate in FaDu Cells in Figure 8D. \*P<0.05; \*\*P<0.01.

**Table S1 Clinic parameters of enrolled patients.**

Serial number	Gender	Age	Pathology	Therapies
1	Male	56	Poorly differentiated hypopharyngeal squamous cell carcinoma	Neoadjuvant therapy
2	Male	62	moderately differentiated hypopharyngeal squamous cell carcinoma	Neoadjuvant therapy
3	Female	58	Highly differentiated hypopharyngeal squamous cell carcinoma	Surgical excision
4	Male	49	moderately differentiated hypopharyngeal squamous cell carcinoma	Neoadjuvant therapy
5	Male	63	moderately differentiated hypopharyngeal squamous cell carcinoma	Neoadjuvant therapy
6	Female	61	Poorly differentiated hypopharyngeal squamous cell carcinoma	Neoadjuvant therapy